

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT Application of  
Mills

Group Art Unit: Unknown

U.S. Serial No.: 10/552,585

Examiner: Unknown

Filed: October 12, 2005

Att. Docket No.: 62226-PULSED

For: **PLASMA REACTOR AND PROCESS FOR PRODUCING LOWER-ENERGY  
HYDROGEN SPECIES**

February 13, 2006

## NEW INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Attached are PTO/SB/O8A and B forms listing the enclosed documents. Copies of the enclosed documents are attached to the presently filed Information Disclosure Statement and/or to the Attachments to the Response filed herewith.

Applicant advises the Secret Committee that took over examination of his pending applications relating to his lower-energy hydrogen technology that Applicant has made a concerted effort to review those applications for documents cited therein and to make those documents of record in each case. Because, however, Applicant's lower-energy hydrogen applications were consolidated under a single Examiner, Bernard Eng-Kie Souw, Applicant believes that the Committee should already be familiar with the totality of these documents. Nonetheless, for purposes of completeness and ensuring that all cited documents have been brought to the PTO's attention, Applicant provides the following list of applications relating to his lower-energy hydrogen technology:

*See W. N.Y.*  
SEARCHED  
SERIALIZED

Application No. 10/552,585

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U.S. Ser. No.	Filing Date
10/552,585	10/12/05
10/893,280	7/19/04
10/513,026	11/01/04
10/494,571	5/6/04
10/469,913	9/5/2003
10/331,725	12/31/02
10/319,460	11/27/02
09/669,877	9/27/00
09/813,792	3/22/01
09/513,768	2/25/00
09/678,730	10/4/00
09/362,693	7/29/99
09/181,180	10/28/98
09/225,687	1/6/99
09/110,717	7/7/98
09/110,694	7/7/98
09/501,622	2/9/00
09/501,621	2/9/00
09/111,003	7/7/98
09/111,160	7/7/98
09/110,678	7/7/98
09/009,455	1/20/98
09/009,294	1/20/98
09/008,947	1/20/98
09/009,837	1/20/98
08/822,170	4/21/97
08/467,051	6/6/95
08/467,911	6/6/95
08/416,040	4/3/95
08/107,357	8/16/93
08/075,102	6/11/93
07/825,845	1/28/92
07/626,496	12/12/90
07/345,628	4/28/89
07/341,733	4/21/89

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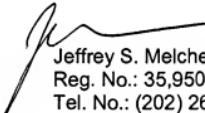
If necessary, please accept this Information Disclosure Statement under Rule 97(c) and charge the requisite Rule 17(p) fee to our Deposit Account No. 50-0687 under Order No. **62-226** for which purposes this paper is submitted in duplicate.

This Information Disclosure Statement is intended to fully comply with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

Consideration of the foregoing remarks and enclosures, including return of a copy of the attached PTO/SB/08A and B forms with the Examiner's initials in the left column per MPEP § 609 and an early action on the merits of this application, are earnestly solicited.

Respectfully submitted,  
Manelli Denison & Selter PLLC

By



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Customer No. 20736

PTO/SB/08A (Modified)

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

## Complete if Known

Application Number	10/552,585
Filing Date	October 12, 2005
First Named Inventor	Mills
Group Art Unit	Unknown 1795
Examiner Name	Unknown Kalafut

Sheet	1	of	71	Attorney Docket Number	62226-PULSED
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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
/SK/	1,001,589			Hatfield	08-23-1911	
	2,708,656			Fermi	05-17-1955	
	3,253,884			Jung, et al	05-31-1966	
	3,297,484			Niedrach	01-10-1967	
	3,300,345			Lyons	01-24-1967	
	3,359,422			Pollock	12-19-1967	
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	3,448,035			Serfass	06-03-1969	
	3,669,745			Beccu	06-13-1972	
	3,701,632			Lovelock	10-31-1972	
	3,755,128			Herwig	08-28-1973	
	3,816,192			Brower	06-11-1974	
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	3,917,520			Katz	11-04-1975	
	4,155,712			Taschek	05-22-1979	
	4,265,720			Winstel	05-05-1981	
	4,274,938			Schulten	06-23-1981	
	4,327,071			Chiu	04-27-1982	
	4,337,126			Gilligan, III et al	06-29-1982	
	4,353,871			Bartlit, et al	10-12-1982	
	4,487,670			Bellanger	12-11-1984	
	4,512,966			Nelson	04-23-1985	
V	4,568,568			Asano	02-04-1986	
/SK/	4,664,904			Wolfrum	05-12-1987	

Examiner Signature	/Stephen Kalafut/	Date Considered	03/16/2008
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (Modified)

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

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Group Art Unit	Unknown
Examiner Name	Unknown

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		Number	Kind Code <sup>2</sup> (if known)		
/SK/	4,702,894			Cornish	10-27-1987
	4,737,249			Shepard Jr.	04-12-1988
	4,774,065			Penzorn	09-27-1988
	4,808,286			Angelo, II	02-28-1989
	4,923,770			Grasselli	05-08-1990
	4,968,395			Pavelle	11-06-1990
	4,957,727			Bogdanovic	09-18-1990
	4,986,887			Gupta	01-22-1991
	5,215,729			Buxbaum	06-01-1993
	5,273,635			Gernert	12-28-1993
	5,318,675			Patterson	06-07-1994
	5,372,688			Patterson	12-13-1994
↓	5,593,640			Long, et al	01-14-1997
	5,789,744			Spence, et al	08-04-1998
/SK/	6,024,935			Mills, et al	02-15-2000

Examiner Signature	/Stephen Kalafut/	Date Considered	03/16/2008
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		Office <sup>3</sup>	Number <sup>4</sup>			
/SK/	WO	90/10935	A1	Pons	09-20-1990	
	WO	90/14668	A2	Cravens	11-29-1990	
	WO	91/01036	A1	Dufour	01-24-1991	
	WO	91/08573	A1	Bush	06-13-1991	
	WO	93/17437	A1	Bush	09-02-1993	
	WO	94/10688	A1	Dufour	05-11-1994	
	WO	94/14163	A1	McKubre	06-23-1994	
	WO	94/15342	A1	McKubre	07-07-1994	
	WO	95/20816	A1	Piantelli	08-03-1995	
	WO	00/25320	A1	Davies	05-04-2000	
	WO	02/08787	A2	De Geus	01-31-2002	
	EP	0 392 325	A3	Semiconductor Energy	10-17-1990	
	EP	0 395 066	A2	Matsushita Electric Ind.	10-31-1990	
↓	JP	53-134792		Ind. Res. Inst. Of	11-24-1978	
	JP	56-136644		Hitachi	03-28-1980	
/SK/	GB	2 343 291		Lloyd Wise, Tregear &	05-13-2000	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT***(use as many sheets as necessary)***FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>				
/SK/	WO	90/13126	A1	Mills	11-01-1990		
	WO	92/10838	A1	Mills	06-25-1992		
	WO	94/29873	A2	Mills	12-22-1994		
	WO	96/42085	A2	Mills	12-27-1996		
	WO	99/05735	A1	Mills	03-04-1999		
	WO	99/26078	A1	Mills	5-27-1999		
	WO	99/34322	A1	Mills	7-8-1999		
	WO	99/35698	A3	Mills	07-15-1999		
	WO	00/07931	A1	Mills	02-17-2000		
	WO	00/07932	A2	Mills	2-17-2000		
	WO	01/095944	A2	Mills	12-20-2001		
	WO	01/18948	A1	Mills	3-15-2001		
	WO	01/21300	A2	Mills	03-29-2001		
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↓	WO	01/70627	A3	Mills	08-27-2001		
	WO	02/087291	A2	Mills	10-31-2002		
/SK/	WO	02/088020	A2	Mills	11-7-2002		

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PTO/SB/08A (Modified)

<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(use as many sheets as necessary)</i></p>		<b>Complete if Known</b>	
		Application Number	10/552,585
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## FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>			
/SK/	WO	02/16956	A1	Mills	2-28-2002	
/SK/	WO	03/093173	A2	Mills	11-13-2003	
/SK/	WO	03/066516	A2	Mills	8-14-2003	
/SK/	WO	04/092058	A2	Mills	10-28-2004	
/SK/	WO	05/041368	A2	Mills	10-6-2005	
/SK/	WO	05/067678	A2	Mills	7-28-2005	

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• **Unitary citation designation number.** <sup>2</sup> See attached **Kind of U.S. Patent Documents.** <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO				<b>Complete if Known</b>	
				Application Number	10/552,585
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Sheet	6	of	21	Attorney Docket Number	62226-PULSED

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
/SK/	114. R.L. Mills, K. Akhtar, B. Dhandapani, "Tests of Features of Field-Acceleration Models for the Extraordinary Selective H Balmer $\alpha$ Broadening in Certain Hydrogen Mixed Plasmas," Journal of Applied Physics, submitted. (Web Publication Date: June 24, 2005.)				
/SK/	113. R.L. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrido States," New Journal of Physics, submitted. (Web Publication Date: June 9, 2005.)				
/SK/	112. R. L. Mills, J. He, Y. Lu, Z. M. Nansteel, Chang, B. Dhandapani, "Comprehensive Identification and Potential Applications of New States of Hydrogen," Central European Journal of Physics, submitted. (Web Publication Date: May 9, 2005.)				
/SK/	111. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrogen Species H <sup>1</sup> (1/4) and H <sub>2</sub> (1/4) as a New Power Source," New J. Chem., submitted. (Web Publication Date: May 6, 2005.)				
/SK/	110. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source," Prepr. Pap.—Am. Chem. Soc., Div. Fuel Chem. 2005, 50(2). (Web Publication Date: April 22, 2005.)				
/SK/	109. R. L. Mills, M. Nansteel, J. He, B. Dhandapani, "Low-Voltage EUV and Visible Light Source Due to Catalysis of Atomic Hydrogen," J. Plasma Physics, submitted. (Web Publication Date: April 15, 2005.)				
/SK/	108. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy System, submitted. (Web Publication Date: April 4, 2005.)				
Examiner Signature	/Stephen Kalafut/		Date Considered	03/16/2008	

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T2
/SK/	107.	R. L. Mills, "Maxwell's Equations and QED: Which is Fact and Which is Fiction," <i>Physica Scripta</i> , submitted. ( <i>Web Publication Date: October 28, 2004.</i> )		
/SK/	106.	R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," <i>Foundations of Science</i> , submitted. ( <i>Web Publication Date: October 28, 2004.</i> )		
/SK/	105.	J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," <i>J. Appl. Physics</i> , submitted. ( <i>Web Publication Date: September 7, 2004.</i> )		
/SK/	104.	R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Advances in Hydrogen Energy, 228th American Chemical Society National Meeting, August 22-26, 2004, Philadelphia, PA.		
/SK/	103.	R. L. Mills, Dhandapani, W. Good, J. He, "New States of Hydrogen Isolated from K <sub>2</sub> CO <sub>3</sub> Electrolysis Gases," <i>Electrochim. Acta</i> , submitted. ( <i>Web Publication Date: April 28, 2004.</i> )		
/SK/	102.	R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One- through Twenty-Electron Atoms," <i>Phys. Essays</i> , submitted. ( <i>Web Publication Date: April 22, 2004.</i> )		
/SK/	101.	R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA.		
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/SK/	100.	R. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, submitted. (Web Publication Date: Nov. 17, 2003.)			
/SK/	99.	R. L. Mills, Y. Lu, B. Dhandapani, "Spectral Identification of H <sub>2</sub> (1/2)," submitted. (no date)			
/SK/	98.	R. L. Mills, Y. Lu, J. He, M. Nansteel, P. Ray, X. Chen, A. Voigt, B. Dhandapani, "Spectral Identification of New States of Hydrogen," New Journal of Chemistry, submitted. (Web Publication Date: Nov. 18, 2003.)			
/SK/	97.	R. L. Mills, P. Ray, B. Dhandapani, "Evidence of an Energy Transfer Reaction Between Atomic Hydrogen and Argon II or Helium II as the Source of Excessively Hot H Atoms in RF Plasmas," Journal of Plasma Physics, in press. (Web Publication Date: Sept. 26, 2003.)			
/SK/	96.	J. Phillips, C.K. Chen, R. L. Mills, "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," Spectrochimica Acta Part B: Atomic Spectroscopy, submitted. (Web Publication Date: Sept. 12, 2003.)			
/SK/	95.	R. L. Mills, P. Ray, B. Dhandapani, "Excessive Balmer $\alpha$ Line Broadening of Water-Vapor Capacitively-Coupled RF Discharge Plasmas" IEEE Transactions on Plasma Science, submitted. (Web Publication Date: Aug. 18, 2003.)			
/SK/	94.	R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," Physics Essays, in press. (Web Publication Date: Aug. 6, 2003.)			
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/SK/	93.	R. L. Mills, P. Ray, M. Nansteel, J. He, X. Chen, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction Forms a New State of Hydrogen," <i>Doklady Physical Chemistry</i> , submitted. (no date)			
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/SK/	88.	R. Mills, J. Sankar, A. Voigt, J. He, P. Ray, B. Dhandapani, "Role of Atomic Hydrogen Density and Energy in Low Power CVD Synthesis of Diamond Films," <i>Thin Solid Films</i> , 478, (2005) 77-90. ( <i>Web Publication Date: Dec. 22, 2003.</i> )			
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				Examiner Name	Unknown
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/SK/	86.	R. L. Mills, P. Ray, J. He, B. Dhandapani, M. Nansteel, "Novel Spectral Series from Helium-Hydrogen Evenson Microwave Cavity Plasmas that Matched Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," European Journal of Physics, submitted. ( <i>Web Publication Date: April 24, 2003.</i> )			
/SK/	85.	R. L. Mills, P. Ray, R. M. Mayo, "Highly Pumped Inverted Balmer and Lyman Populations," New Journal of Physics, submitted (no date)			
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/SK/	79.	R. Mills, J. He, B. Dhandapani, P. Ray, "Comparison of Catalysts and Microwave Plasma Sources of Vibrational Spectral Emission of Fractional-Rydberg-State Hydrogen Molecular Ion," Canadian Journal of Physics, submitted (no date)			
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/SK/	72.	R. L. Mills, M. Nansteel, P. C. Ray, "Bright Hydrogen-Light and Power Source due to a Resonant Energy Transfer with Strontium and Argon Ions," <i>Vacuum</i> , submitted. (no date)			
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/SK/		58. R. L. Mills, "Classical Quantum Mechanics," Physics Essays, Vol. 16, (2003) 433-498. (Web Publication Date: May 23, 2002.)			
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/SK/		52. R. Mills and M. Nansteel, P. Ray, "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions," <i>New Journal of Physics</i> , Vol. 4, (2002), pp. 70.1–70.28. ( <i>Web Publication Date: October, 2002, when it became available on the New Journal of Physics website.</i> )			
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/SK/		50. R. L. Mills, P. Ray, J. Dong, M. Nansteel, B. Dhandapani, J. He, "Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," <i>Vibrational Spectroscopy</i> , Vol. 31, No. 2, (2003), pp. 195–213. (no month)			
/SK/		49. R. L. Mills, P. Ray, E. Dayalan, B. Dhandapani, J. He, "Comparison of Excessive Balmer $\alpha$ Line Broadening of Inductively and Capacitively Coupled RF, Microwave, and Glow Discharge Hydrogen Plasmas with Certain Catalysts," <i>IEEE Transactions on Plasma Science</i> , Vol. 31, No. 3, (2003), pp. 338–355. ( <i>Web Publication Date: Sept. 17, 2002.</i> )			
/SK/		48. R. M. Mayo, R. Mills, "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity," <i>IEEE Transactions on Plasma Science</i> , October, (2002), Vol. 30, No. 5, pp. 2066–2073. ( <i>Web Publication Date: March 26, 2002.</i> )			
/SK/		47. H. Conrads, R. Mills, Th. Wrubel, "Emission in the Deep Vacuum Ultraviolet from a Plasma Formed by Incandescently Heating Hydrogen Gas with Trace Amounts of Potassium Carbonate," <i>Plasma Sources Science and Technology</i> , Vol 12, (2003), pp. 389–395 (no month)			
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/SK/		46. R. L. Mills, P. Ray, "Stationary Inverted Lyman Population and a Very Stable Novel Hydride Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Catalysts," Opt. Mater, in press. (no date)			
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/SK/		40. R. M. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications," IEEE Transactions on Plasma Science, August, (2002), Vol. 30, No. 4, pp. 1568-1578. ( <i>Web Publication Date</i> : Nov. 12, 2001.)			
/SK/		39. R. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by an Exothermic Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts," J. Phys. Chem. A, submitted. ( <i>Web Publication Date</i> : Nov. 13, 2001.)			
/SK/		38. R. Mills, E. Dayalan, P. Ray, B. Dhandapani, J. He, "Highly Stable Novel Inorganic Hydrides from Aqueous Electrolysis and Plasma Electrolysis," Electrochimica Acta, Vol. 47, No. 24, (2002), pp. 3909-3926. ( <i>Web Publication Date</i> : June 13, 2002.)			
/SK/		37. R. L. Mills, P. Ray, B. Dhandapani, R. M. Mayo, J. He, "Comparison of Excessive Balmer $\alpha$ Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts," J. of Applied Physics, (2002), Vol. 92, No. 12, pp. 7008-7022. ( <i>Web Publication Date</i> : Oct. 9, 2002.)			
/SK/		36. R. L. Mills, P. Ray, B. Dhandapani, J. He, "Emission Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen Formed by a Catalytic Helium-Hydrogen Plasma Reaction," Vacuum, submitted. ( <i>Web Publication Date</i> : Oct. 9, 2001.)			
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/SK/		34. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen," <i>J. of Quantitative Spectroscopy and Radiative Transfer</i> , in press. ( <i>Web Publication Date</i> : Oct. 9, 2001.)			
/SK/		33. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion," <i>J. Mol. Struct.</i> , Vol. 643, No. 1-3, (2002), pp. 43-54. ( <i>Web Publication Date</i> : Oct. 10, 2001.)			
/SK/		32. R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product," <i>Int. J. Hydrogen Energy</i> , Vol. 27, No. 9, (2002), pp. 927-935. ( <i>Web Publication Date</i> : Sept. 19, 2001.)			
/SK/		31. R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry," <i>Int. J. Hydrogen Energy</i> , Vol. 27, No. 9, (2002), pp. 967-978. ( <i>Web Publication Date</i> : Sept. 14, 2001)			
/SK/		30. R. L. Mills, A. Voigt, P. Ray, M. Nansteel, B. Dhandapani, "Measurement of Hydrogen Balmer Line Broadening and Thermal Power Balances of Noble Gas-Hydrogen Discharge Plasmas," <i>Int. J. Hydrogen Energy</i> , Vol. 27, No. 6, (2002), pp. 671-685. ( <i>Web Publication Date</i> : Aug. 22, 2001.)			
/SK/		29. R. Mills, P. Ray, "Vibrational Spectral Emission of Fractional-Principal-Quantum-Energy-Level Hydrogen Molecular Ion," <i>Int. J. Hydrogen Energy</i> , Vol. 27, No. 5, (2002), pp. 533-564. ( <i>Web Publication Date</i> : July 19, 2001.)			
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/SK/		28. R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter," <i>Int. J. Hydrogen Energy</i> , (2002), Vol. 27, No. 3, pp. 301–322. ( <i>Web Publication Date</i> : Aug. 1, 2001.)			
/SK/		27. R. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Potassium and Atomic Hydrogen and the Hydride Ion Product," <i>Int. J. Hydrogen Energy</i> , Vol. 27, No. 2, (2002), pp. 183–192. ( <i>Web Publication Date</i> : Jan. 11, 2002.)			
/SK/		26. R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity," <i>Proceedings of the National Hydrogen Association, 12th Annual U.S. Hydrogen Meeting and Exposition, Hydrogen: The Common Thread</i> , The Washington Hilton and Towers, Washington DC, (March 6–8, 2001), pp. 671–697. ( <i>Presented at the conference on March 7, 2001; Web Publication Date</i> : April 20, 2001.)			
/SK/		25. R. Mills, W. Good, A. Voigt, Jinquan Dong, "Minimum Heat of Formation of Potassium Iodo Hydride," <i>Int. J. Hydrogen Energy</i> , Vol. 26, No. 11, (2001), pp. 1199–1208. ( <i>Web Publication Date</i> : March 23, 2001.)			
/SK/		24. R. Mills, "Spectroscopic Identification of a Novel Catalytic Reaction of Atomic Hydrogen and the Hydride Ion Product," <i>Int. J. Hydrogen Energy</i> , Vol. 26, No. 10, (2001), pp. 1041–1058. ( <i>Web Publication Date</i> : March 23, 2001.)			
/SK/		23. R. Mills, N. Greenig, S. Hicks, "Optically Measured Power Balances of Glow Discharges of Mixtures of Argon, Hydrogen, and Potassium, Rubidium, Cesium, or Strontium Vapor," <i>Int. J. Hydrogen Energy</i> , Vol. 27, No. 6, (2002), pp. 651–670. ( <i>Web Publication Date</i> : July 20, 2001.)			
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/SK/	22.	R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Global Foundation, Inc. Orbis Scientiae entitled <i>The Role of Attractive and Repulsive Gravitational Forces in Cosmic Acceleration of Particles The Origin of the Cosmic Gamma Ray Bursts</i> , (29th Conference on High Energy Physics and Cosmology Since 1964) Dr. Behram N. Kursunoglu, Chairman, December 14-17, 2000, Lago Mar Resort, Fort Lauderdale, FL, Kluwer Academic/Plenum Publishers, New York, pp. 243-258. ( <i>Presented at the conference on Dec. 15, 2000; Web Publication Date: May 17, 2001.</i> )			
/SK/	21.	R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Int. J. Hydrogen Energy, Vol. 27, No. 5, (2002), pp. 565-590. ( <i>Web Publication Date: Sept. 17, 2001.</i> )			
/SK/	20.	R. Mills, M. Nansteel, P. Ray, "Argon-Hydrogen-Strontium Discharge Light Source," IEEE Transactions on Plasma Science, Vol. 30, No. 2, (2002), pp. 639-653. ( <i>Web Publication Date: Dec. 7, 2000.</i> )			
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/SK/	18.	R. Mills, "BlackLight Power Technology-A New Clean Energy Source with the Potential for Direct Conversion to Electricity," Global Foundation International Conference on "Global Warming and Energy Policy," Dr. Behram N. Kursunoglu, Chairman, Fort Lauderdale, FL, November 26-28, 2000, Kluwer Academic/Plenum Publishers, New York, pp. 187-202. ( <i>Presented at the conference on Nov. 26, 2000; Web Publication Date: Jan. 19, 2001.</i> )			
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/SK/		17. R. Mills, "The Nature of Free Electrons in Superfluid Helium—a Test of Quantum Mechanics and a Basis to Review Its Foundations and Make a Comparison to Classical Theory," Int. J. Hydrogen Energy, Vol. 26, No. 10, (2001), pp. 1059–1096. (Web Publication Date: Dec. 11, 2000.)			
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/SK/		13. R. Mills, "Temporal Behavior of Light-Emission in the Visible Spectral Range from a Ti-K <sub>2</sub> CO <sub>3</sub> -H-Cell," Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 327–332. (Web Publication Date: July 10, 2000.)			
/SK/		12. R. Mills, T. Onuma, and Y. Lu, "Formation of a Hydrogen Plasma from an Incandescently Heated Hydrogen-Catalyst Gas Mixture with an Anomalous Afterglow Duration," Int. J. Hydrogen Energy, Vol. 26, No. 7, July, (2001), pp. 749–762. (Web Publication Date: June 28, 2000.)			
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/SK/	11.	R. Mills, M. Nansteel, and Y. Lu, "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance," <i>Int. J. Hydrogen Energy</i> , Vol. 26, No. 4, (2001), pp. 309–326. ( <i>Web Publication Date</i> : June 27, 2000.)			
/SK/	10.	R. Mills, B. Dhandapani, N. Greenig, J. He, "Synthesis and Characterization of Potassium Iodo Hydride," <i>Int. J. of Hydrogen Energy</i> , Vol. 25, Issue 12, December, (2000), pp. 1185–1203. ( <i>Web Publication Date</i> : Nov. 12, 2001.)			
/SK/	9.	R. Mills, "Novel Inorganic Hydride," <i>Int. J. of Hydrogen Energy</i> , Vol. 25, (2000), pp. 669–683. ( <i>Web Publication Date</i> : June 28, 2000.)			
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/SK/	7.	R. Mills, "Highly Stable Novel Inorganic Hydrides," <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 6, (2003), pp. 45–54. ( <i>Web Publication Date</i> : Nov. 20, 2001.)			
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/SK/	5.	R. Mills, "The Hydrogen Atom Revisited," <i>Int. J. of Hydrogen Energy</i> , Vol. 25, Issue 12, December, (2000), pp. 1171–1183. ( <i>Web Publication Date</i> : June 27, 2000.)			
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/SK/	4.	Mills, R., Good, W., "Fractional Quantum Energy Levels of Hydrogen," <i>Fusion Technology</i> , Vol. 28, No. 4, November, (1995), pp. 1697-1719. ( <i>Web Publication Date</i> : Nov. 1, 2001.)		
/SK/	3.	Mills, R., Good, W., Shaubach, R., "Dihydrido Molecule Identification," <i>Fusion Technology</i> , Vol. 25, 103 (1994). ( <i>Web Publication Date</i> : April 11, 2001.)		
/SK/	2.	R. Mills and S. Kneizys, <i>Fusion Technol.</i> Vol. 20, 65 (1991). ( <i>Web Publication Date</i> : April 11, 2001.)		
	1.	R. Mills, <i>The Grand Unified Theory of Classical Quantum Mechanics</i> , September 2001 Edition, BlackLight Power, Inc., Cranbury, New Jersey, Distributed by Amazon.com; July 2003 Edition posted at <a href="http://www.blacklightpower.com">www.blacklightpower.com</a>		
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/SK/	Abdallah, et. al. "The Behavior of Nitrogen Excited in an Inductively Coupled Argon Plasma." <i>J. Appl. Phys.</i> , Vol 88, No 1, July 2000, pp. 20-33.		
/SK/	Abelès, Ed. Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'." <i>Optical Properties of Solids</i> , 1972, pp. 718-754. (no month)		
/SK/	Abramova, et. al."Tornado-type closed magnetic trap for an electron cyclotron resonance ion source." <i>Review of Scientific Instruments</i> , Vol 71, No 2, February 2000, pp. 921-923.		
/SK/	Albagli, et. al. "Measurement and Analysis of Neutron and Gamma-Ray Emission Rates, Other Fusion Products, and Power in Electrochemical Cells Having Pd Cathodes." <i>Journal of Fusion Energy</i> , Vol 9, No 2, June 1990, pp. 133-148.		
/SK/	Alber, et. al."Search for Neutrons from Cold Nuclear Fusion." <i>Z. Phys. A. - Atomic Nuclei</i> , Vol 333, 1989, pp. 319-320. (no month)		
/SK/	Alessandrello, et. al. "Search for Cold Fusion Induced by Electrolysis in Palladium." // <i>Nuovo Cimento</i> , Vol 103A, No 11, November 1990, pp. 1617-1638.		
/SK/	Alger et al. "F Centers in Pure and Hydride-Containing Alkali Halide crystals." <i>Physical Review</i> , Vol 97, January 15, 1955, pp. 277-287.		
/SK/	Arfken. "Mathematical Methods for Physicists." <i>Academic Press</i> , 1970, pp.-413-415. (no month)		
/SK/	Associated Press. "Panel Opposes Cold Fusion Efforts." <i>The Washington Post</i> , July 13, 1989, p. A14.		

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/SK/		Associated Press. "Pennsylvania Company...Cold Fusion Mystery." Lexis Nexis Reprint, 1991. (April)	
/SK/		Associated Press. "Physicist: Utah Cold-Fusion Gear Doesn't Work." The Washington Post, March 29, 1990, p. A3.	
/SK/		"Atomic Physics Progress Report 1995-1996" (internet page) atompic2.fysik.lth.se/AFDOCS/Progrep956/contents.asp (author and date unknown)	
/SK/		"Atomic Spectroscopy" (internet page) physics.nist.gov/Pubs/AtSpec/node20.html (author and date unknown)	
/SK/		Baard, Erik. "The Empire Strikes Back." The Village Voice, April 26-May 2, 2000	
/SK/		Baard, Erik. "Quantum Leap." The Village Voice, Dec 22-28, 1999.	
/SK/		Baard, Erik. "Researcher Claims Power Tech That Defies Quantum Theory." Dow Jones Newswires, Oct 6, 1999.	
/SK/		Baard, Erik, "Hydrido Theorist Gets Nod From NASA-Funded Investigation Eureka?", The Village Voice, Dec. 6, 2002	
/SK/		Balke, et. al. "Limits on Neutron Emission From 'Cold Fusion' in Metal Hydrides.", Physical Review C, Vol 42, No 1, July 1990, pp. 30-37.	

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/SK/		Barmann et. al. "Spatially and Temporally Resolved Studies of the Electron Density in Liquid Streamers by Emission Spectroscopy" (Internet page) atomp2.fysic.lth.se/AFDOCS/Progrep956/5al.htm (Atomic Physics Progress Report)		
/SK/		Barth, "Bigger Than Fire?", Gale Group Magazine DB, The Gale Group, 2003 (no month)		
/SK/		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces." <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430. (no month)		
/SK/		Bäuerle et al. "Infrared Vibrational Absorption by U-Centers in NaI." <i>Phys. Stat. Sol.</i> , Vol 24, 1967, pp. 207-215. (no month)		
/SK/		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407. (no month)		
/SK/		Benetskii, et. al. "An Attempt to Observe Cold Thermonuclear Fusion in a Condensed Medium." <i>Nuclear Research Institute</i> , AS USSR, May 1989, pp. 75-78.		
/SK/		Besenbacher, et. al. "Search for Cold Fusion in Plasma-Charged Pd-D and Ti-D Systems." <i>Journal of Fusion Energy</i> , Vol 9, No 3, September 1990, pp. 315-317.		
/SK/		Best, Ben. "The Copenhagen Interpretation of Quantum Mechanics." (internet page) www.benbest.com/science/quantum.html. (no date listed)		
/SK/		Bethe, et. al. "Quantum Mechanics of One and Two-Electron Atoms." <i>Cornell University</i> , 1977, pp. 2, 9-12, 47, 83-84, 92, 107. (no month)		

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/SK/		Bishop. "It ain't over til it's over ... Cold Fusion." <i>Popular Science</i> , Aug 1993, pp. 47-51.	
/SK/		Bishop. "More Labs Report Cold Fusion Results." <i>Wall Street Journal</i> , Oct 19, 1992.	
/SK/		Bjorken et al., ""Relativistische Quantenmechanik", <i>Die Dirac-Gleichung</i> , pp. 22-25, 1964 (no month)	
/SK/		"Blacklight Power - do they have something significant?" (internet page) <a href="http://www.phact.org/e/blp.htm">www.phact.org/e/blp.htm</a> (author and date unknown)	
/SK/		Blochinzew, <i>Grundlagen Der Quantenmechanik</i> , Veb Deutscher Verlag Der Wissenschaften, 1967 (no month)	
/SK/		Blue. "Cold Fusion Lies." <i>Deja News on the Internet</i> , April 13, 1997.	
/SK/		Blue. "Randell Mills' Sells Pot Shards." <i>Deja News on the Internet</i> , April 30, 1997.	
/SK/		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some qualitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.	
/SK/		Boniface, et. al. "Calorimetry for a Ni/K <sub>2</sub> CO <sub>3</sub> Cell." AECL Research, June 1994.	

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				First Named Inventor	Mills
				Group Art Unit	Unknown
				Examiner Name	Unknown
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## OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

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/SK/		Bosch, et. al. "Electrochemical Cold Fusion Trials at IPP Garching." <i>Journal of Fusion Energy</i> , Vol 9, No 2, June 1990, pp. 165-186.	
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/SK/		Browne. "Fusion Claims is Greeted With Scorn by Physicists." <i>The New York Times</i> , May 3, 1989, pp. A1and A22.	

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/SK/		Browne. "Physicists Put Atom in 2 Places at Once." <i>The New York Times</i> . (no date)			
/SK/		Bush. "A Light Water Excess Heat Reaction Suggests That 'Cold Fusion' May Be 'Alkali-Hydrogen Fusion'." <i>Fusion Technology</i> , Vol 22, Sept. 1992, pp. 301-322.			
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/SK/		Close. "Too Hot to Handle-The Race for Cold Fusion." <i>Princeton University Press</i> , 1989. (no month)	
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/SK/		Dagani. "Cold Fusion believer turns skeptic crusades for more rigorous research." <i>C&amp;EN Washington</i> , June 5, 1995, pp. 34-45, 38 and 40.	
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/SK/		Delbecq et al. "Pragmatic Resonance Investigation of Irradiated KCl Crystals Containing U-Centers." <i>Phys. Rev.</i> , Vol 104, Nov 1, 1956, pp. 599-604.	
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/SK/		Dery et. al. "Effect of Dielectric constant, Cavities in Series, and Cavities in Parallel on the Product Description of the Oligomerization of Methane via Microwave Plasmas." <i>Journal of Physical Chemistry</i> 1996, Vol. 100. 8 July 1996. pp. 17866-17872	
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/SK/		Durr, et. al. "Origin of quantum-mechanical complementarity probed by a 'which-way' experiment in an atom interferometer." <i>Nature</i> , Vol 395, September 3, 1998, pp. 33-37.		
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/SK/		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 40150, March 1994.		
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/SK/		Ewing, et. al. "A sensitive multi-detector neutron counter used to monitor cold fusion experiments in an underground laboratory; negative results and positive artifacts." <i>IEEE Transactions on nuclear science</i> , Vol 37, No 3, June 1990, pp. 1165-1170.		
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

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/SK/		Feynman, et al. "The Feynman Lectures of Physics: Quantum Mechanics." 1965. (no month)	
/SK/		Fine, Arthur. "The Shaky Game: Einstein Realism and the Quantum Theory." <i>The University of Chicago Press</i> , 1986, pp.64-85. (no month)	
/SK/		Fischer. "Die optische Absorption der U <sub>2</sub> -Zentren in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , Vol 131, 1952, pp. 488-504. (no month)	
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/SK/		Fujimoto, et. al." Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma." <i>J. Appl. Phys.</i> , Vol 66, No 6, Sept. 1989, pp. 2315-2319.		
/SK/		Gernert, et. al. "Anomalous Heat From Atomic Hydrogen in Contact with Potassium Carbonate." <i>Thermacore, Inc.</i> (no date)		
/SK/		Gottfried, "Quantum electrodynamics: Matter all in the mind", (internet page) <a href="http://www.nature.com/cgi-taf/DynaPage.t.../e/journal/v419/n6903/full/419117a_r.html">www.nature.com/cgi-taf/DynaPage.t.../e/journal/v419/n6903/full/419117a_r.html</a> , 2002 (no month)		
/SK/		Gulyaev "Gigantic Atoms in Space" (internet page) <a href="http://www.astronomy.org.nz/events/month.../reviews/2001/gigantic_atoms_in_space.htm">www.astronomy.org.nz/events/month.../reviews/2001/gigantic_atoms_in_space.htm</a> (date unknown)		
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/SK/		Hayashi, Shigenobu. "Accurate determination of <sup>1</sup> H Knight shifts in Mg <sub>2</sub> NiH <sub>x</sub> and MgH <sub>x</sub> by means of high-speed magic angle spinning." <i>Journal of Alloys and Compounds</i> , Vol 248, 1997, pp. 66-69. (no month)		
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/SK/		Heitler, W. "The Quantum Theory of Radiation." <i>University of Zürich</i> , 1984, pp. 104. (no month)		
/SK/		Henderson, et. al. "More Searches for Cold Fusion." <i>Journal of Fusion Energy</i> , Vol. 9, No. 4, 1990. (no month)		
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/SK/		Hines, "Scientific Mistakes: N-rays and Polywater", <i>Pseudoscience and the Paranormal</i> , Prometheus Books, 1988, pp. 8-13 (no month)	
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/SK/		Horanyi. "Some Basic Electrochemistry and the Cold Nuclear Fusion of Deuterium." <i>J. Radioanal. Nucl. Chem. Letters</i> , Vol 137, No 1, August 21, 1989, pp. 23-28.	
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/SK/		Jacox, et. al. "INEL XPS Report." Idaho National Engineering Laboratory, EG &G Idaho, Inc., Nov 1993.		
/SK/		Jansson. "Hydrocatalysis:: A New Energy Paradigm for the 21 <sup>st</sup> Century." A Thesis, Master of Science in Engineering Degree in the Graduate Division of Rowan University, May 1997.		
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				Group Art Unit	Unknown
				Examiner Name	Unknown
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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/SK/		Judge, "SHE-2 Latest Solar EUV Measurements"(internet page) www.usc.edu/dept/space_science/seh2data.htm, August 18, 1997	
		Ivance, et. al. "Colorimetry For a Ni/K <sub>2</sub> CO <sub>3</sub> Cell." AEOL Research, June 1994. (also cited as Boniface et al.)	
/SK/		Kahn. "Confusion in a Jar." Nova, 1991. (no month)	
/SK/		Karabut, et. al. "Nuclear Product...Deuterium." Physics Letters A170, 1992, pp. 265-272. (Nov 1992)	
/SK/		Karplus and Porter. <i>Atoms and Molecules: An Introduction for Students of Physical Chemistry</i> , The Benjamin/Cummings Publishing Company, Menlo Park, California, 1970, p. 3, 118-123. (no month)	
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/SK/		Kerkhoff et al. "Electronenspin-Resonanz und Photochemie des U <sub>2</sub> -Zentrums in Alkalihalogenid-Kristallen." <i>Zeitschrift für Physik</i> , Vol 173, 1963, pp.184-202. (no month)		
/SK/		Klein. "Attachments to Report of Cold Fusion Testing." <i>Cold Fusion</i> , No 9, pp. 16-19. (no month)		
/SK/		Kleinschrod. "Photochemische Zersetzung von KH und KD in KBr-Kristallen." <i>Ausgegeben</i> , Jan. 5, 1939, pp. 143-148.		
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/SK/		Kreig "Hydrinos: A state below the ground state" (internet page) www.phact.org/e/x/hydrino.htm (date unknown)	
/SK/		Kreysa, et. al. "A Critical Analysis of Electrochemical Nuclear Fusion Experiments." <i>J. Electroanal. Chem.</i> , Vol 266, 1989, pp. 437-450. (no month)	
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/SK/		Kurtz, et. al. "Report on Calometric Investigations of Gas-Phase Catalyzed Hydriko Formation." Hydrocatalysis Power Corp. Report, December 1996.	
/SK/		Labov. "Spectral Observations...Background." <i>The Astrophysical Journal</i> , Vol 371, April 20, 1991, pp. 810-819.	
/SK/		Leggett, et. al. "Exact Upper Bound...'Cold Fusion'." <i>Physical Review Letters</i> , Vol 63, No 2, July 1989, pp. 190-194.	

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/SK/		"Lehigh X-Ray Photoelectron Spectroscopy Report." December 8, 1993.	
/SK/		Lewis, et. al., "Searches for Low-Temperature Nuclear Fusion of Deuterium in Palladium." <i>Nature</i> , Vol 340, August 17, 1989, pp. 525-530.	
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/SK/		Lüty. "Über Die Natur Der V <sub>3</sub> -Zentren In Strahlungsverfärbtem KCCI." <i>J. Phys. Chem. Solids</i> , Vol 23, 1962, pp. 677-681. (no month)	
/SK/		Maly, et. al. "Electron Transitions on Deep Dirac Levels I." <i>ANS Reprint, Fusion Technology</i> , Vol 24, Nov. 1993, pp. 307-318.	
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/SK/		Martienssen. "Photochemische Vorgänge in Alkalihalogenidkristallen." <i>Zeitschrift für Physik</i> , Vol 131, 1952, pp. 488-504.	
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/SK/		Merzbacher, Eugen. "Quantum Mechanics." 1961, p. 198. (no month)	
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/SK/		Meulenbroeks, et. al. "Influence of molecular processes on the hydrogen atomic system in an expanding argon-hydrogen plasma." <i>Phys. Plasmas</i> , Vol 2, No 3, March 1995pp. 1002-1008.		
/SK/		Miles et. al. "Correlation of Excess...Palladium Cathodes." <i>J. Electron. Chem.</i> , 1993, pp. 99-117. (no month)		
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/SK/		Morrison. "Comments on claims of excess enthalpy by Fleischmann and Pons using simple cells made to boil." <i>Physics Letter A</i> , Vol 185, February 28, 1994, pp. 498-502.	
/SK/		Morrison. "Review of Progress in Cold Fusion." <i>Transactions of Fusion Technology</i> , Vol 26, Dec 1994, pp. 48-55.	
/SK/		Morse, et. al. "Methods of Theoretical Physics." <i>Massachusetts Institute of Technology</i> , Part 1: Chapters 1-8, 1953, pp. 808-903. (no month)	
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/SK/		Niedra. "Replication of the Apparent Excess Heat Effect in Light Water ... Cell." <i>NASA Technical Memorandum 107167</i> , Feb. 1996.	
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/SK/		Noninski, et. al. "Determination...Heavy Water." <i>Fusion Technology</i> , Vol 19, 1990, pp. 365-367. (no month)		
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/SK/		Notoya. "Tritium Generation ... Nickel Electrodes." <i>Fusion Technology</i> , Vol 26, 1994, pp. 179-183. (no month)		
/SK/		Notoya, et. al. "Excess Heat Production in Electrolysis ... Electrodes." <i>Proceedings of the Int. Conf. on Cold Fusion</i> , Oct. 21-25, 1992, Tokyo, Japan.		
/SK/		Odenthal et al., "The Zeeman Splitting of the 5876 Å Helium Line Studied by Means of a Turnable Dye Laser", <i>Physica</i> , pp. 203-216, 1982 (no month)		
/SK/		Ohashi, et. al. "Decoding of Thermal Data in Fleischmann & Pons Paper." <i>J. of Nucl. Sci. &amp; Tech.</i> , Vol 26, No 7, July 1989, pp. 729-732.		
/SK/		Ohmori, et. al. "Excess Heat Evolution ... Tin Cathodes." <i>Fusion Technology</i> , Vol 24, 1993, pp. 293-295. (no month)		
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/SK/		Park, Robert L. "Perpetual Motion: Still Going Around." <i>Washington Post</i> , January 12, 2000, pg H03.		

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/SK/		Pauling, et. al. "Introduction to Quantum Mechanics with Applications to Chemistry." <i>Harvard University</i> , 1985, pp. 121-140. (no month)			
/SK/		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, <i>Westinghouse STC</i> , Feb 1994.			
/SK/		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and PD/Carbon." Consulting Report, Jan 1996.			
/SK/		Plasmaphysics.org. Conversion Table: cgs/SI- units. (internet page) <a href="http://www.plasmaphysics.org.uk/convers.htm">www.plasmaphysics.org.uk/convers.htm</a> . (no author or date listed)			
/SK/		Platt, Charles. "Testing the Current." <i>Washington Post</i> . June 25, 2000, pg X05.			
/SK/		Popov. "Electrochemical Characterization of BlackLight Power, Inc. MH as Electrodes for Li-ion Batteries." Department of Chemical Engineering University of South Carolina, Feb 2000.			
/SK/		Powell et al. <i>Quantum Mechanics</i> , Addison-Wesley Publishing Co., Inc., pp. 205-229 and 478-482, 1961 (no month)			
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/SK/		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- $\alpha$ Excitation in Ar-H $^2$ Radio-Frequency Discharges." <i>J. Appl. Phys.</i> , Vol 78, No 2, July 1995, pp. 746-756.			

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/SK/		Rathke. "A critical analysis of the hydrino model." <i>New Journal of Physics</i> , Volume 7, 127. 2005. (no month)		
/SK/		Rauch et al. "Some F-Band Optical Oscillator Strengths in Additively Colored Alkali Halides." <i>Physical Review</i> , Feb 1, 1957, Vol 105, pp. 914-920.		
/SK/		Rees. "Cold Fusion...What Do We Think?" <i>Journal of Fusion Energy</i> , Vol 10, No 1, 1991, pp. 110-116. (no month)		
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/SK/		Rosenblum. "Four Interviews With Dr. Randell Mills on New Energy, New Physics." <i>Re: (ise-l) Institute for Social Ecology Newsletter</i> , Feb 2, 1998.		
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				First Named Inventor	Mills
				Group Art Unit	Unknown
				Examiner Name	Unknown
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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/SK/		Rousseau. "Case Studies in Pathological Science." <i>American Scientist</i> , Vol 80, 1992, pp. 54-63.	
/SK/		Rout, et. al. "Phenomenon of Low Energy Emissions from Hydrogen/Deuterium Loaded Palladium." <i>3<sup>rd</sup> Annual Conference on Cold Fusion</i> , Oct. 21-25, 1992.	
/SK/		Rudd, et. al. "Backward Peak in the Electron Spectrum from Collisions of 70-keV Protons with a Target from a Hydrogen-Atom Source." <i>Physical Review Letters</i> , Vol 68, No 10, March 1992, pp. 1504-1506.	
/SK/		Salomon, et. al. "Limits ... Electrolytic Cells." <i>Nature</i> , Vol 344, March 29, 1990, pp. 401-405.	
/SK/		Schaefer. "Das Ultrarote Spektrum Des U-Zentrums," <i>Phys. Chem. Solids</i> , 1960, 12, pp. 233-244, Pergamon Press, Great Britain. (no month)	
/SK/		Schearer et al. "Microwave Saturation of Paraelectri-Resonance Transitions of OH <sup>-</sup> Ions in Kcl." <i>Solid State Communications</i> , Vol 4, 1966, pp. 639-642. (no month)	
/SK/		Schiff, Leonard I. "Quantum Mechanics." <i>Stanford University</i> , 1968, pp. 1, 7-8, 10-12, 21, 54-57, 60-61, 81-82, 101, 527. (no month)	
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/SK/	Shani, et. al. "Evidence for a Background Neutron Enhanced Fusion in Deuterium Absorbed Palladium." <i>Solid State Communications</i> , Vol 72, No 1, 1989, pp. 53-57. (no month)		T2
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/SK/	Shook. "A Pragmatically Realistic Philosophy of Science." <i>Pragmatic Naturalism and Realism</i> . Prometheus Books: Amherst, NY. 2003. (no month)		
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/SK/	Souw et al., "Calculation of the Combined Zeeman and translational Stark Effect on the H <sub>a</sub> -Multiplet", <i>Physica</i> , pp. 353-374, 1983 (no month)		
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/SK/	Srinivasan, et. al. "Tritium and Excess Heat Generation during Electrolysis of Aqueous Solutions of Alkali Salts with Nickel Cathode." <i>3rd Annual Conference on Cold Fusion</i> , Oct. 21-25, 1992.		T2
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/SK/	"Stellar Spectra and the Secrets of Starlight" (Internet Pages) <a href="http://www.kingusa.ab.ca/~brian/astro/course/lectures/fall/a200110g.htm">www.kingusa.ab.ca/~brian/astro/course/lectures/fall/a200110g.htm</a> (date and author unknown)		
/SK/	Stipp. "Georgia Group Outlines Errors That Led to Withdrawal of Cold Fusion Claims." <i>The Wall Street Journal</i> , April 26, 1989, p. B4.		
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/SK/		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.		
/SK/		Tegmark, et. al. "100 Years of Quantum Mysteries." <i>Scientific American</i> , Feb 2001, pp. 68-75.		
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/SK/		Vigier. "New Hydrogen Energies in Specially Structured Dense Media : Capillary Chemistry and Capillary Fusion." <i>Proceedings of the Third Annual Conf. on Cold Fusion</i> , Nagoya, Japan, October 21-25, 1992, H. Ikegami, Ed. Universal Academy		
		Vigier. "New Hydrogen (Deuterium) Bohr Orbits." <i>Proc. IOPF 4</i> , Vol 4, 1994, p. 7-10.		
/SK/		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315. (no month)		
/SK/		Wheeler, et. al. "Quantum Theory and Measurement." Translation of Heisenburg's Uncertainty Principle Paper, <i>Zeitschrift für Physik</i> , 1927, Vol 43, pp. 172-198. (no month)		
/SK/		Williams. "Upper Bounds on Cold Fusion in Electrolytic Cells." <i>Nature</i> , Vol 342, 23 November 1989, pp. 375-384.		
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/SK/		Yamaguchi et. al. "Direct Evidence...Palladium." <i>NTT Basic Research Laboratories</i> , 1992 pp. 1-10. (no month)		
/SK/		Ziegler, et. al. "Electrochemical Experiments in Cold Nuclear-Fusion." <i>Physical Review Letters</i> , Vol 62, No 25, June 19, 1989, pp. 2929-2932.		
/SK/		Zimmerman, Peter "An analysis of theoretical flaws in so-called classical quantum mechanics and of experimental evidence against CQM" (internet page) <a href="http://groups.yahoo.com/group/hydriño/files/analysis.rtf">groups.yahoo.com/group/hydriño/files/analysis.rtf</a> (date unknown)		

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/SK/		Zweig, "Quark Catalysis of Exothermal Nuclear Reactions", Science, Vol. 201, (1978), pp. 973-979. (no month)	

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/SK/		Mills. "Author's response 'A possible trick of Hydride atom'." <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, p. 1225. (no month)		
/SK/		Mills."Author's response to 'Hydrido atom: novel chemistry or invalid physics'." <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, pp. 1233. (no month)		
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/SK/		Mills. "BLACKLIGHT POWER TECHNOLOGY: A New Clean Energy Source with the Potential for Direct Conversion to Electricity." <i>International Conference on Global Warming and Energy Policy</i> , Ft. Lauderdale, Florida, November 26-28, 2000. Internet Publication 1/19/01		
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		Mills. "The Grand Unified Theory of Classical Quantum Mechanics," (2004), Distributed by Amazon.Com. (also cited as attachment 1 on page 23)		
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/SK/		Mills, et. al. "Direct Plasmadynamic Conversion of Plasma Thermal Power to Electricity." <i>IEEE Transactions on Plasma Science</i> , submitted. Internet Publication Date 3/26/02			

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/SK/		Mills, et. al. "Highly Stable Amorphous Silicon Hydride." <i>J of Materials Research</i> , submitted. Internet Publication Date 4/15/02			
/SK/		Mills, et. al. " High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", <i>International Journal of Hydrogen Energy</i> , in press. (no date)			
		Mills et al., "Liquid Nitrogen Condensable Molecular Hydrogen Gas isolated from a Catalytic Plasma Reaction," <i>J. Phys. Chem. B</i> , submitted.			
/SK/		Mills, et. al. "New Energy States of Atomic Hydrogen Formed in a Catalytic Helium-Hydrogen Plasma." <i>IEEE Transactions on Plasma Science</i> , submitted. Internet Publication Date 7/17/02			

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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
				Application Number	10/552,585
				Filing Date	October 12, 2005
				First Named Inventor	Mills
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				Examiner Name	Unknown
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## OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
/SK/		Mills, et. al. "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen." <i>Fuels and Energy</i> , submitted. (no date)	
/SK/		Mills, et. al. "The Potential for an Extremely versatile Hydrogen Water-Plasma Laser." <i>Phys. Rev. E</i> , submitted. (no date)	
/SK/		Mills, et. al. "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts, Quantitative Spectroscopy and Radiative." Submitted. (no date)	
/SK/		Mills, et. al. "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen." <i>Journal of Physical Chemistry</i> (letter), Submitted. (no date)	
		Mills, et. al. "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen Formed by a Catalytic Helium-Hydrogen Plasma Reaction." <i>Spectrochimica Acta B</i> , submitted. Internet Publication Date 7/26/02.	
/SK/		Mills, et. al. "Spectroscopic Identification of Transitions of Fractional Rydberg States of Atomic Hydrogen." <i>Quantitative Spectroscopy and Energy Transfer</i> . Submitted. Internet Publication Date 10/09/01	
/SK/		Mills, et. al. "Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", <i>Chemical Physics Letts.</i> submitted. Internet Publication Date 3/20/02	
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/SK/		Letter from Shelby T. Brewer to The Honorable James E. Rogan, December 21, 2001 and PTO response from Jason C. Roe, April 24, 2002 (see Attachment A)		
/SK/		PARK, "Patent Nonsense, Court Denies Blacklight Power Appeal", <i>What's New</i> , September 6, 2002, <a href="http://www.aps.org/WN/WN02/wn090602.html">www.aps.org/WN/WN02/wn090602.html</a> (see Attachment C)		
/SK/		RANDI, "Houdini and the Rabbi, The Patent Office Again, A Perpetual Motion/Emotion Car Breaks Down...", <i>Swift</i> , September 20, 2002, <a href="http://www.randi.org/in/092002.html">www.randi.org/in/092002.html</a> (see Attachment C)		
/SK/		VOSS, "New Physics' Finds a Haven At the Patent Office", <i>Science</i> , Vol. 284, pp. 1252-1254, May 21, 1999 (see Attachment D)		
/SK/		PTO Memorandum For All Employees: Media Contact Policy from Acting Assistant Secretary of Commerce and Acting Commissioner of Patents and Trademarks, June 22, 1999		
/SK/		Letter from Jeffrey S. Melcher to Ms. Esther Kepplinger, February 28, 2000 (see Attachment G)		
/SK/		Internet Discussion Forum, "Two Brand New Papers out at BLP's "What's New" page," message No. 7191 on Hydrino Study Group, <a href="http://groups.yahoo.com/group/hydrino/message/7191">http://groups.yahoo.com/group/hydrino/message/7191</a> , September 27, 2003 (see Attachment H)		
/SK/		Internet Discussion Forum, "Even Skeptics can lose Objectivity," message No. 7410 on Hydrino Study Group, <a href="http://groups.yahoo.com/group/hydrino/message/7410">http://groups.yahoo.com/group/hydrino/message/7410</a> , October 27, 2003 (see Attachment H)		

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/SK/		Internet Discussion Forum, "Two Competing Views of Reality Engage in a Battle for Total Control of Our Physics Paradigm", <i>Hydrino Study Group</i> , <a href="http://www.hydrino.org">http://www.hydrino.org</a> (see Attachment H) (no date)	
/SK/		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Tom Stolper, November 10, 2003 (see Attachment H)	
/SK/		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Peter Zimmerman and Tom Stolper, October 29, 2003 (see Attachment H)	
/SK/		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Tom Stolper, October 28, 2003 (see Attachment H)	
		Internet Discussion Forum, "HSG: Even skeptics can lose objectivity", Transcript from Steve Menton, October 26, 2003 (see Attachment H) (also cited on page 60)	
/SK/		Internet Discussion Forum, "HSG: Zimmerman's Insincere Questions", Transcript from Peter Zimmerman and Steve Menton, September 25, 2003 (see Attachment H)	
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/SK/		Internet Discussion Forum, "HSG: Re: Bool Review by Dr. John Farrell", Transcript from Peter Zimmerman, February 23, 2004 (see Attachment H)	
/SK/		"Regarding PZ's Departing Post", includes many public posts on hydrino study group. pp 1-75 (see Attachment I) (no date)	
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/SK/		Letter from Jeffrey S. Melcher to Ms. Esther Kepplinger with Attachments A-E, January 19, 2001 (see Attachment K)	
		PLATT, "Testing the Current", <i>The Washington Post</i> , June 25, 2000, Page X05 (see Attachment M) (also cited on page 46)	
Examiner Signature	/Stephen Kalafut/	Date Considered	03/16/2008

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		USPTO Communication re Interview scheduled for February 21, 2003, February 12, 2001 (see Attachment N)			
/SK/		Letter from Senator Ron Wyden to The Honorable Todd Q. Dickinson with attachments, April 5, 2000 (see Attachment O)			
		Letter from Senator Robert G. Torricelli to Nicholas P. Gocio with attachments, July 20, 2001 (see Attachment O)			
/SK/		Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)			
/SK/		Letter from Senator Max Cleland to Ms. Jane Cooksey with attachments, March 24, 2000 (see Attachment O) Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)			
/SK/		Letter from Senators Max Cleland and Ron Wyden to The Honorable Donald L. Evans, December 20, 2001; Letter from Senators Jon S. Corzine and Robert G. Torricelli to The Honorable Donald L. Evans, December 21, 2001 (see Attachment O)			
/SK/		Email re Interview Summary from Jeffrey Simenauer to Ted Liu, February 13, 2003 (see Attachment P)			
/SK/		"APS E-Board Passes Resolution on Perpetual Motion Machines", APS NEWS ONLINE, August/September 2002, <a href="http://www.eps.org/aps/apsnews/0802/080212.html">http://www.eps.org/aps/apsnews/0802/080212.html</a> (see Attachment Q)			
/SK/		Letter from Elizabeth Barlow to John Allen, March 17, 2004 (see Attachment R)			
/SK/		Letters from John Allen to Office of Counsel, US Department of Commerce with attachments, May 12, 2003, June 7, 2003, and March 10, 2004 (see Attachment R)			
/SK/		Souw, Bernard, "Coherent Telescope array with self-homodyne interferometric detection for optical communications," Opt. Eng. 42(11) 3139-3157 (Nov. 2003); U.S. Department of Commerce, Summary of Ethics Rules, USPT, 2000; October 15, 2004 E-mail to Examiner Wayner (Attachment S)			
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/SK/		CRITCHLEY <i>et al.</i> , "Energy shifts and forbidden transitions in H <sub>2</sub> due to electronic g/u symmetry breaking", <i>Molecular Physics</i> , 2003, Vol. 101, Nos. 4-5, pp. 651-661, Taylor & Francis Ltd. (no month)	
/SK/		GAMBUS <i>et al.</i> , "Spectroscopic Study of Low-Pressure Water Plasmas and Their Reactions with Liquid Hydrocarbons", <i>Energy &amp; Fuels</i> , 2002, 16, pp. 172-176, American Chemical Society (no month)	
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Examiner Signature	/Stephen Kalafut/	Date Considered	03/16/2008
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## PTO/SB/08B (Modified)

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STATEMENT BY APPLICANT***(use as many sheets as necessary)*

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					(also cited on page 41)
		Technology Insights, "Hydro-Catalysis Technical Assessment," (Part of 09/009,637 paper no.: 20050207)			
					This document was submitted by R. Mills on 7/17/02 in pending application 09/669,877.
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		J M Luque, M D Calzada and M Saez, "Experimental research into the influence of ion dynamics when measuring the electron density from the Stark broadening of the H $\alpha$ and H $\beta$ lines."			
					(also cited on page 41)
/SK/		Eng-Kie Souw, "Plasma Density Measurement in an Imperfect Microwave Cavity", J. Appl. Phys. 61, 1761, 1987.			
		John R. Shook, "A Pragmatically Realistic Philosophy of Science", < <a href="http://www.pragmatism.org/shook/pragmatic_and_Realistic.htm">http://www.pragmatism.org/shook/pragmatic_and_Realistic.htm</a> >			(also cited on page 50)
		Raoul Nakhmanson, "The Ghostly Solution of the Quantum Paradoxes and its Experimental Verification", from "Frontiers of Fundamental Physics", Bartole & Soller, Plenum Press, NY 1994, < <a href="http://arxiv.org/ftp/physics/papers/0103/0103006.pdf">http://arxiv.org/ftp/physics/papers/0103/0103006.pdf</a> >			(also cited on page 44)
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/SK/		OLTHOFF <i>et al.</i> , "Studies of Ion Kinetic-Energy Distributions in the Gaseous Electronics Conference RF Reference Cell", <i>Journal of Research of the National Institute of Standards and Technology</i> , 100:4, pp. 383-400, July-August 1995			
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/SK/		JOVICEVIC <i>et al.</i> , "Excessive Balmer line broadcasting in microwave-induced discharges", <i>Journal of Applied Physics</i> , 95:1, pp. 24-29, January 1, 2004, American Institute of Physics			
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/SK/		MAYO, "Thermalization and Energy Distribution in Cold Laboratory Plasmas Comments on the Possibility of Mono-Energetic Species", April 20, 2004			
		VIDENOVIC <i>et al.</i> , "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge", <i>Spectrochimica Acta Part B</i> , 51, pp. 1707-1731, 1996			(also cited on page 52)
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/SK/		"Standard Series Barium Tungsten Dispenser Cathodes", HeatWave Labs, Inc., TB-198, July 29, 2002, Spectra-Mat, Inc.			
/SK/		ABATE <i>et al.</i> , "Optimization and enhancement of H <sup>+</sup> ions in a magnetized sheet plasma", <i>Review of Scientific Instruments</i> , 71:10, pp. 3689-3695, October 2000, American Institute of Physics			
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